

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US00/00847

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B30B11/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B30B F15B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 40 03 016 A (REITTER ERHARDT) 8 August 1991 (1991-08-08)	1-4,6,7, 10,19, 22,23
Y	abstract; figure 1	5,8,9, 11-18, 20,21, 24-28
A	--- US 4 482 307 A (HERREN DIETMAR ET AL) 13 November 1984 (1984-11-13) cited in the application	1,13,22
Y	column 4, line 17 - line 41; figures	5,9,17, 18,26-28
Y	--- US 2 509 783 A (RICHARDSON LLOYD D) 30 May 1950 (1950-05-30) column 2, line 53 -column 3, line 7; figure 1	8,11,12, 20,21
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the International search

20 May 2003

Date of mailing of the International search report

28/05/2003

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00847

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FR 1 424 583 A (DBA SA) 14 January 1966 (1966-01-14) abstract; figures ---	13-16
A	US 5 551 856 A (KATAGIRI TAKESHI) 3 September 1996 (1996-09-03) column 5, line 53 -column 6, line 16; figures 1-5 ---	1,13,22
Y		24,25
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 03, 27 February 1998 (1998-02-27) & JP 09 295196 A (TSUKIMURA ENG:KK), 18 November 1997 (1997-11-18) abstract; figures 1-5 ---	1,10-13, 19-22
A	US 5 238 375 A (HIRAI KEITA) 24 August 1993 (1993-08-24) abstract; figures 1-7 ---	1,13,22
A	WO 01 08864 A (MATERIALS INNOVATION INC) 8 February 2001 (2001-02-08) cited in the application abstract; figures ---	1,13,22
A	EP 0 586 028 A (MANNESMANN AG) 9 March 1994 (1994-03-09) cited in the application abstract; figures -----	1,13,22

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Information on patent family members

International Application No

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			EP 0077897 A2	04-05-1983
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